



Knowledge Co-Creation Program (Group & Region Focus)

General information on

Water Related Disaster Risk Reduction (Online)
課題別研修「水災害被害の軽減に向けた対策」(遠隔研修)
JFY 2021

Course No.: 202003268J001

First Online Program Period:
From December 7, 2021 to December 22, 2021

Second Online Program Period :
From January 24, 2022 to February 17, 2022

This information pertains to one of the JICA Knowledge Co-Creation Programs (Group & Region Focus) of the Japan International Cooperation Agency (JICA) implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

JICA Knowledge Co-Creation Program (KCCP)

The Japanese Cabinet released the Development Cooperation Charter in February 2015, which stated, *“In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together.”* JICA believes that this ‘Knowledge Co-Creation Program’ will serve as a foundation of mutual learning process.

I. Concept

Background

Water related disasters have caused serious damage worldwide in recent years. Followed by rapid global warming, it is expected that climate change will further aggravate the impacts of those disasters, particularly in developing countries. There is a pressing need for those countries to enhance their knowledge and capacities for effective disaster risk reduction in order to confront water related disasters and mitigate the damage.

Japan has long accumulated its know-how on disaster risk reduction through the past experience. The Hyogo Framework for Action, which was adopted in 2005, calls for capacity building of high disaster risk countries, while stressing the importance of enhancing international and regional support for those countries through proactive approaches, such as technology transfers. The Hyogo Framework was followed by the Sendai Framework for Disaster Reduction 2015-2030 which in 2015 recognized the role of governments and other stakeholders to reduce the risk of disasters. Japan's knowledge and approaches could be a help for developing countries where large-scale water related disasters have frequently occurred over the past years. The goal of this course is to develop participants' capacity for water related disaster risk reduction. In particular, participants will acquire practical knowledge on flood control, river management, and sediment control¹. Through lectures, practices and workshops, participants are expected to learn skills and approaches to prevent and mitigate disasters, and also methods to recover and reconstruct from the losses.

For what?

This program aims to develop participants' capacity to manage water related disasters and contribute to mitigate flood and sediment disasters in their countries.

For whom?

This program targets administrative officials responsible for water related disaster risk reduction, flood control, sediment control and watershed management.

How?

In this program, participants shall have opportunities to identify approaches and strategies for managing water related disasters. The program offers lectures/practices (online) and virtual tours, which focus on Japan's knowledge and technologies for flood control as well as the experiences and approaches in disaster risk reduction. Through the course, participants will formulate Action Plans on water related disaster risk reduction for their countries based on the methodologies and acquired ideas.

¹ Water related disasters, such as tsunami, storm surge, or drought, are beyond the scope of this program.

II. Description

1. Title (Course No.)

Water Related Disaster Risk Reduction (202003268J001)

2. Online Program Period

The first period: December 7, 2021 to December 22, 2021

The second period: January 24, 2022 to February 17, 2022

Group 1: 9:00-11:00 in principle (Japan Time)

Group 2: 17:00-19:00 in principle (Japan Time)

*According to the time differences/countries, participants will be divided into 2 groups.

Group 1: Brazil, Fiji, Malaysia, Mexico

Group 2: Afghanistan, India, Kenya, Liberia, Mauritania, Mozambique, Niger, Pakistan, Somalia, Sri Lanka, Vietnam

*Program will be the combination of live online lectures and on-demand videos.

*Please see 9. for the detailed schedule.

3. Target Regions or Countries

Afghanistan, Brazil, Fiji, India, Kenya, Liberia, Malaysia, Mauritania, Mexico, Mozambique, Niger, Pakistan, Somalia, Sri Lanka, Vietnam

4. Eligible / Target Organization

Central or local government organizations responsible for water related disaster risk reduction, flood control, sediment control, or watershed management

5. Capacity (Upper Limit of Participants)

15 participants

6. Language

English

7. Objective(s)

The program aims to strengthen participants' own capabilities to make/develop policies and implement measures to reduce water related disaster damages through learning policies and systems on flood control and disaster risk reduction in Japan.

8. Overall Goal

Countermeasures against water related disaster are to be taken in a participant's organization based on Action Plan developed in this course.

9. Output and Contents

This program consists of the following components. Details on each component are given below.

<p>(1) Preliminary Phase in a participant's home country: October to November 2021 Participating organizations make required preparation for the Program in the respective countries.</p>		
Outputs	Activities*	
Output 1: To clarify issues through analyzing damages, policies and plans on water related disaster in their countries.	Participants analyze damages and countermeasures/ plans on water related disasters in their countries, summarize the results and make <u>Inception Report</u> on them by <u>November 24, 2021 together with application form.</u>	
<p>(2) Core Phase: December 7, 2021 to February 17, 2022 This phase consists mainly of lectures which contribute to capacity building of participants on policy planning and implementation.</p>		
Expected Output	Subjects/Agendas	Methodology
Output 2: To understand basic concepts and theories on flood control and disaster risk reduction as essential knowledge of river management.	(1) Lectures with basic subjects related with river planning and strategy on flood control and disaster risk reduction in Japan	<u>ONLINE</u> Lecture
	(2) Sample subjects: rivers in Japan and outline of river governance; river management policy and plan; dam projects and systems; hydrological observation and water disaster monitoring / prediction; flood fighting; climate change adaptation; maintenance of Flood control facilities; and IWRM,	
Output 3: To understand cases of implementation of flood control measures (Preparedness, Mitigation and Reconstruction) in Japan.	(1) Practical workshop for flood and/or hydraulic analysis software and system	<u>ONLINE</u> Lecture Exercise
Output 4: To design policies to solve issues on river management in their countries based on the knowledge acquired in this course.	(1) Draft, present and discuss <u>Action Plan</u> for effective disaster risk reduction in participants' countries. *Action plans are to be made at the end of online training period	<u>ONLINE</u> Workshop Presentation Discussion

*Please note that those listed components are subject to change.

<Structure of the Course> (Tentative Schedule)

Abbreviations:

IDI: Infrastructure Development Institute-Japan

MLIT: Ministry of Land, Infrastructure, Transport and Tourism

FASID: Foundation for Advanced Studies on International Development

ICHARM: International Center for Water Hazard and Risk Management under the auspices of UNESCO

NIED: National Research Institute for Earth Science and Disaster Resilience

Time of the Program:

Group 1: 9:00-11:00 in principle (Japan Time)

Group 2: 17:00-19:00 in principle (Japan Time)

The first period: December 7, 2021 to December 22, 2021

Day	Date	Content	Lecturer	Category	Method
1	7-Dec(Tue)	Briefing/Program Orientation	JICA Tsukuba	-	Online
		Course Orientation	IDI	-	Online
2	8-Dec(Wed)	Presentation of Inception Reports	IDI	Lecture	Online
3	9-Dec(Thu)	Guidance of Action Plan	IDI	-	Online
		JICA's Cooperation in Disaster Risk Reduction	JICA	Lecture	Video
4	10-Dec(Fri)	Overview of River Administration in Japan	MLIT	Lecture	Video
		Overview of River Planning in Japan	MLIT	Lecture	Video
		Climate Change Adaptation Measures	MLIT	Lecture	Video
		Overview of Sediment-related Disaster Prevention in Japan	MLIT	Lecture	Video
5	13-Dec(Mon)	Advanced Technologies to Construct and Upgrade Dams	MLIT	Lecture	Video
		Dam Management in Japan	MLIT	Lecture	Video
		Maintenance and Management of Rivers	MLIT	Lecture	Video
6	14-Dec(Tue)	PCM 1/5	FASID	Lecture	Online
7	15-Dec(Wed)	PCM 2/5	FASID	Lecture	Online
8	16-Dec(Thu)	PCM 3/5	FASID	Lecture	Online
9	17-Dec(Fri)	Administrative System for Water-Related Disaster Risk Reduction and Examples of Response to Water- Related Disasters	MLIT	Lecture	Video
		Flood Control Activities	MLIT	Lecture	Video
		Hydrological Observation / Prediction Technology and Its Utilization	MLIT	Lecture	Video
10	20-Dec(Mon)	Building a Flood Resilient Nation	JICA	Lecture	Video
		Master's Program on Risk Management (Basic Knowledge for Hazard Mapping)	ICHARM	Lecture	Video
11	21-Dec(Tue)	PCM 4/5	FASID	Lecture	Online
12	22-Dec(Wed)	PCM 5/5	FASID	Lecture	Online
		Review/Hearing	IDI	Discussion	Online

The second period: January 24, 2022 to February 17, 2022

Day	Date	Content	Lecturer	Category	Method
13	24-Jan(Mon)	Japan's New Policy: River Basin Disaster Resilience and Sustainability by All. -To protect lives and livelihoods from the intensifying heavy rain disaster-	Tohoku Regional Development Bureau, MLIT	Visit	Video
		Measures to Prevent Floods 2	Tohoku Regional Development Bureau, MLIT	Visit	Video
		Measures to Prevent Floods 3	Tohoku Regional Development Bureau, MLIT	Visit	Video
14	25-Jan(Tue)	Checking of Program progress	IDI	-	Online
		Questions and Discussions	IDI	Discussion	Online
15	26-Jan(Wed)	Development of Technologies for Prevention of flood and debris flow	NIED	Lecture	Online
		Radar Observations of Rainfall and Cumulonimbus Clouds	NIED	Lecture	Online
16	27-Jan(Thu)	Introduction of Facilities	NIED	Visit	Online
		Storm Surge Disaster Mitigation	NIED	Visit	Online
		Social Implementation of Research Observation and Prediction Technology	NIED	Lecture	Online
17	28-Jan(Fri)	Preparation for Action Plan		Exercise	Self-Study
18	31-Jan(Mon)	The Metropolitan Outer Area Underground Discharge Channel	Kanto Regional Development Bureau, MLIT	Visit	Video
		Fictional Documentary "Arakawa River Flooding"	Arakawa-karyu River Office, MLIT	Visit	Video
		Construction Project for Arakawa Retention Basins 2 and 3	Arakawa Retarding Basin Project Office	Visit	Video
19	1-Feb(Tue)	TBD	TBD	Lecture	Online
20	2-Feb(Wed)	Gender and Disaster Management	Faculty of Education, Shizuoka Univ.	Lecture	Online
21	3-Feb(Thu)	Water-related Disaster Risk and Countermeasure Concept	IDI	Lecture	Online
		Global Flood Alert System (GFAS)	IDI	Lecture	Online
22	4-Feb(Fri)	Preparation for Action Plan		Exercise	Self-Study
23	7-Feb(Mon)	Amagase Dam Redevelopment Project	Kinki Regional Development Bureau	Visit	Video
		Kamenose Landslide Countermeasure Project	Kinki Regional Development Bureau		Video
24	8-Feb(Tue)	Preparation for Action Plan (Q & A)	IDI	Discussin	Online
25	9-Feb(Wed)	Amagase Dam Redevelopment Project		Exercise	Self-Study
26	10-Feb(Thu)	Preparation for Action Plan		Exercise	Self-Study
27	14-Feb(Mon)	Preparation for Action Plan		Exercise	Self-Study
28	15-Feb(Tue)	Preparation for Action Plan		Exercise	Self-Study
29	16-Feb(Wed)	Presentation of Action Plans	IDI Global Environment Dep., JICA	Presentation	Online
30	17-Feb(Thu)	Evaluation/Closing Ceremony	JICA Tsukuba IDI	Discussion	Online

III. Eligibility and Procedures

1. Expectations to the Applying Organizations

- (1) This course is designed primarily for organizations that intend to address specific issues or problems identified in their operation. Applying organizations are expected to use the program for those specific purposes.
- (2) This course is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the course to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) This project is designed primarily for organizations that intend to address specific issues or problems identified in their operations. Applying organizations are expected to use the program for those specific purposes.
- (4) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section III-2 below.
- (5) Applying organizations are also expected to be prepared to make use of knowledge acquired by the nominees for the said purpose.

2. Nominee Qualifications

Applying organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) Current Duties: a member of central or local government organization in charge of water related disaster risk reduction, flood control, sediment control, or watershed management. The nominee should be in a mid-level to managerial position, and/or is expected to be in the near future, involved in the decision making process of planning/development and implementation of policies in the relevant field.
- 2) Job Experience: has a working experience over five (5) years in the field of water related disaster risk reduction, flood control, sediment control or watershed management
- 3) Educational Background: be university graduate or equivalent.
- 4) Language Proficiency: proficient in spoken and written English which is equal to TOEFL CBT 213 or more. This program includes active participation in discussions and development of Action Plan, thus requires high competence of English ability both in conversation and composition. Attach an official certificate for English ability such as TOEFL and TOEIC to the application form if possible
- 5) To be proficient in Microsoft Word, Excel and Power Point

(2) Specific Qualifications for Online program participation

- 1) Have own available laptop computer (with microphone and camera)
- 2) Have access to stable internet connection (5Mbps speed)

- 3) Have basic skill on internet operation such as accessibility to Zoom, Microsoft Teams, etc.
- 4) Secure the date for attending all lectures of online program
- 5) Have availability for participation regardless of the normal working hours. It will be held from 9:00-11:00(Group 1) or 17:00-19:00(Group 2) (Japanese time: GMT +9) every weekday in principle during the period.

If there are any concerns, JICA overseas offices may be able to support for setting up participants' IT environment (ex. tablet or laptop PC lending, venue arrangement, etc.) by answering Questionnaire. Please see ANNEX I.

(3) Recommended Qualifications

- 1) Work: be able to work at least 2 years after the course to execute Action Plan.
- 2) Age: be between the ages of twenty-eight (28) and forty (40) years.
- 3) Gender Consideration: JICA promotes gender equality. Women are encouraged to apply for the program.

3. Required Documents for Application

(1) Application Form: The Application Form is available at **the JICA overseas office (or the Embassy of Japan)**

(2) Photocopy of Passport: You should submit it with the application form.

*The following information should be included in the photocopy:

Name, Date of Birth, Nationality, Sex, Passport Number and Expiry Date

If you don't have the passport, other identifications can be acceptable (e.g., National Identification Card).

(3) English Score Sheet: to be submitted with the application form, if the nominees have any official English examination scores. (e.g., TOEFL, TOEIC, IELTS)

(4) Questionnaire: to be submitted with the application form. Fill in Annex I of this General Information.

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: **Please confirm the local deadline with the JICA overseas office (or the Embassy of Japan).**

(All required material must arrive at **JICA Center in Japan** by October 18, 2021)

(2) Selection

Primary screening is conducted at the JICA overseas office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued.

The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance

The JICA overseas office (or the Embassy of Japan) will notify the results **not later than November 5, 2021.**

5. Additional Document(s) to Be Submitted by Accepted Candidates

Inception Report -- to be submitted by November 24, 2021

Accepted candidates are required to prepare an Inception Report (Please read the Annex "Inception Report" for detailed information.) before the start of the program. The Inception Report should be sent to JICA by November 24, 2021, via e-mail to tbicttp@jica.go.jp

6. Conditions for Participation

The participants of KCCP are required

- (1) To strictly observe the course schedule,
- (2) Not to change the program topics,
- (3) Not to record or share the online contents without permission.

IV. Administrative Arrangements

1. Organizer (JICA Center in Japan)

(1) Center JICA Tsukuba Center (JICA Tsukuba / TBIC)

(2) Program Officer: Ms. HAGIWARA Makiko (jicatic@jica.go.jp)

2. Implementing Partner

➤ Name: Infrastructure Development Institute-Japan (IDI)

URL: <http://www.idi.or.jp/en/>

➤ Name: Ministry of Land, Infrastructure, Transport and Tourism (MLIT)

URL: <https://www.mlit.go.jp/en/>

➤ Name: International Center for Water Hazard and Risk Management under the auspices of UNESCO (ICHARM)

URL: <https://www.pwri.go.jp/icharm/>

➤ Name: The National Research Institute for Earth Science and Disaster Resilience (NIED)

URL: <https://www.bosai.go.jp/e/>

3. Orientation before the start of the online program *

*YouTube of “Knowledge Co-Creation Program and Life in Japan” and “Introduction of JICA Center” are viewable from the link below.

Part I: Knowledge Co-Creation Program and Life in Japan	
English ver.	https://www.youtube.com/watch?v=SLurfKugrEw
French ver.	https://www.youtube.com/watch?v=v2yU9ISYcTY

V. Other Information

1. **Certificate:** Participants who have successfully completed the course will be awarded an official certificate from JICA.
2. **Information of JICA:** You can check our services on our website and social media.

- **JICA Tsukuba Website:**
<https://www.jica.go.jp/tsukuba/english/office/index.html>
- **JICA Tsukuba Facebook:**
<https://www.facebook.com/jicatsukuba>
- **JICA Tsukuba Brochure:**
https://www.jica.go.jp/tsukuba/english/office/others/c8h0vm0000ec0zgr-att/tsukuba_profile_en.pdf
- **YouTube clip “Introduction of JICA Tsukuba”:**
<https://www.jica.go.jp/tsukuba/english/office/index.html>



VI. Annex I (Questionnaire)

【Your IT Environment for Online Program】		
Based on your answer, JICA office will consider your IT environment arrangement. Since your answer does not affect to the acceptance judgment, please answer honestly.		
No.	Questions	Yes or No
1	Do you have a following system to attend online program at your home or office?	
1-1	Desktop or laptop PC	Desktop or Laptop or None
1-2	Internet environment	Yes or No (OS version:)
1-3	Stable Internet connection (5Mbps speed)	Yes or No
1-4	PC with Microphone	Yes or No
1-5	PC with Camera	Yes or No
2	Have you ever attend online meeting?	Yes or No (When:) (Organizer:)
3	Have you ever used those online systems below?	
3-1	Zoom	Yes or No
3-2	Microsoft Teams	Yes or No
3-3	Google Drive	Yes or No
3-4	Google Form	Yes or No
3-5	You Tube	Yes or No
3-6	Facebook	Yes or No
3-7	Other	Describe it:
4	Which do you prefer, participating from your home, your office or the designated place that JICA provide such as hotels or conference rooms, during the online program? From December 7, 2021, to February 17, 2022	Your home, your office, or the designated place that JICA provide
5	Please let us know if you have any concerns or questions for participating the program.	Describe:
6	Your contact email address and phone number during the online program	Email: Phone:

For Your Reference

JICA and Capacity Development

Technical cooperation is people-to-people cooperation that supports partner countries in enhancing their comprehensive capacities to address development challenges by their own efforts. Instead of applying Japanese technology per se to partner countries, JICA's technical cooperation provides solutions that best fit their needs by working with people living there. In the process, consideration is given to factors such as their regional characteristics, historical background, and languages. JICA does not limit its technical cooperation to human resources development; it offers multi-tiered assistance that also involves organizational strengthening, policy formulation, and institution building.

Implementation methods of JICA's technical cooperation can be divided into two approaches. One is overseas cooperation by dispatching experts and volunteers in various development sectors to partner countries; the other is domestic cooperation by inviting participants from developing countries to Japan. The latter method is the Knowledge Co-Creation Program, formerly called Training Program, and it is one of the core programs carried out in Japan. By inviting officials from partner countries and with cooperation from domestic partners, the Knowledge Co-Creation Program provides technical knowledge and practical solutions for development issues in participating countries.

The Knowledge Co-Creation Program (Group & Region Focus) has long occupied an important place in JICA operations. About 400 pre-organized courses cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs is being customized by the different target organizations to address the specific needs, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan, as the first non-Western nation to become a developed country, built itself into a country that is free, peaceful, prosperous and democratic while preserving its tradition. Japan will serve as one of the best examples for our partner countries to follow in their own development.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from a process of adoption and adaptation, of course, has been accompanied by countless failures and errors behind the success stories.

Through Japan's progressive adaptation and application of systems, methods and technologies from the West in a way that is suited to its own circumstances, Japan has developed a storehouse of knowledge not found elsewhere from unique systems of organization, administration and personnel management to such social systems as the livelihood improvement approach and governmental organization. It is not easy to apply such experiences to other countries where the circumstances differ, but the experiences can provide ideas and clues useful when devising measures to solve problems.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



Contact Information for Inquiries

For inquiries and further information, please contact the JICA overseas office or the Embassy of Japan. Further, address correspondence to:

JICA Tsukuba Center (JICA TSUKUBA)

Address: 3-6 Koyadai, Tsukuba-shi, Ibaraki-ken 305-0074, Japan

TEL: +81-29-838-1111 FAX: +81-29-838-1119

Email: tbictp@jica.go.jp